



2002-03

7501.0

VALUE OF

**PRINCIPAL AGRICULTURAL
COMMODITIES PRODUCED**

AUSTRALIA
PRELIMINARY

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C O N T E N T S

	<i>page</i>
Notes	2
Summary of findings	3
 TABLES	
1 Gross value, states	5
2 Gross value, Australia	6
 ADDITIONAL INFORMATION	
Explanatory Notes	7

I N Q U I R I E S

- For more information about these and related statistics, contact Geoff Ellerton on Hobart (03) 6222 5856, or the National Information and Referral Service on 1300 135 070.

NOTES

ABOUT THIS PUBLICATION This publication contains preliminary information on the gross values of production for principal agricultural commodities for all states, territories and Australia. The final estimates will be released in September 2004.



SYMBOLS AND OTHER USAGES

ABS	Australian Bureau of Statistics
AS	Agricultural Survey
ACT	Australian Capital Territory
Aust.	Australia
n.p.	not available for publication but included in totals where applicable
NSW	New South Wales
NT	Northern Territory
Qld	Queensland
p	preliminary data
RSE	relative standard error
SA	South Australia
SE	standard error
Tas.	Tasmania
Vic.	Victoria
WA	Western Australia
\$m	million dollars
—	nil or rounded to zero (including null cells)
^	data subject to sampling variability equal to or greater than 10%, but less than 25%
*	data subject to sampling variability equal to or greater than 25%, but less than or equal to 50%
**	data subject to sampling variability greater than 50%, estimate is not published

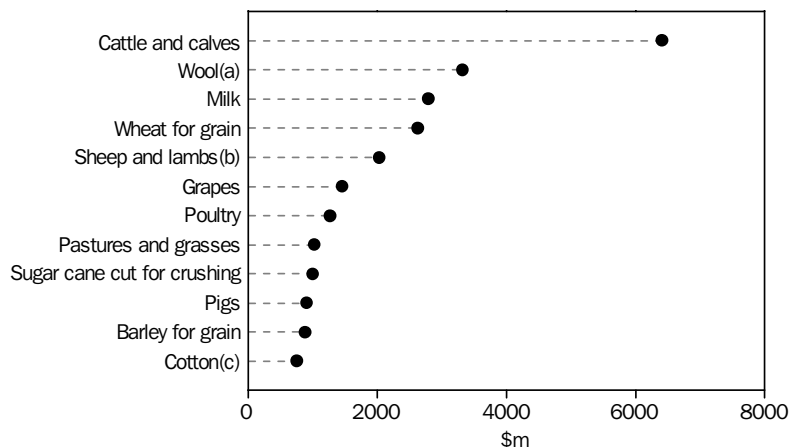
Dennis Trewin
Australian Statistician

SUMMARY OF FINDINGS

NATIONAL ESTIMATES

In 2002–03, the preliminary estimate of the gross value of agricultural commodities produced fell by 17% to \$33.0 billion. The prolonged drought saw decreases in the gross values of all major categories of agricultural production (crops, livestock slaughterings and other disposals, and livestock products) with significant falls in production levels partly offset by increases in prices for some commodities.

GROSS VALUE OF AGRICULTURAL COMMODITIES PRODUCED — 2002–03p



(a) Includes value of dead wool and wool on skins.

(b) Excludes value of wool on skins.

(c) Includes value of cotton lint and cotton seed.

Crops

In 2002–03, the gross value of crops fell by 26% to \$15.9 billion. Decreases in gross value were recorded for all major cereal crops: wheat for grain fell by 59% to \$2.6 billion; barley for grain fell by 48% to \$890 million; grain sorghum fell by 10% to \$316 million; oats for grain fell by 16% to \$211 million; and rice for grain fell by 51% to \$160 million. These decreases were mostly due to significant falls in estimated production, since strong demand for feed grain fuelled increases in average prices.

Gross values for a number of other major crops also fell: cotton was down by 43% to \$753 million; canola was down by 46% to \$366 million; and lupins for grain was down by 31% to \$208 million. Sugar cane cut for crushing was one of the few crops to record an increase in value in 2002–03, up by 2% to \$1.0 billion. Good conditions were reported in a number of sugar growing regions and the consequent increase in production more than offset a fall in average price.

The gross value of pastures and grasses increased by 32% in 2002–03 to \$1.0 billion. Crops for hay also recorded an increase in gross value, up by 66% to \$371 million. Average prices for pasture crops and crops for hay increased by 51% and 77% respectively, reflecting increased demand for fodder crops during the drought.

SUMMARY OF FINDINGS *continued*

Crops *continued*

The estimated gross value of grapes fell by 7% to \$1.5 billion, with falls recorded in production and average price. The gross values of apples and tomatoes increased by 3% (to \$358 million) and 22% (to \$279 million), respectively. These increases were due to increases in average price since production of both crops was down.

Livestock slaughterings and other disposals

In 2002–03, the preliminary estimate of the gross value of livestock slaughterings and other disposals fell by 7% to \$10.7 billion.

The gross value of cattle and calves slaughterings and other disposals fell by 10% to \$6.4 billion. Drought conditions and increased feed costs prompted higher turnoff rates with total disposals up by 9%. This forced prices down by an average of 17%, from the highs of the previous year.

The gross value of sheep and lambs slaughterings and other disposals also fell, down by 4% to \$2.0 billion. Although continued strong demand led to a small increase in average prices, tight supply of sheep and lambs saw a 5% fall in total disposals.

The gross value of poultry slaughterings and other disposals rose by 8% to \$1.3 billion, the result of a small increase in total disposals and a 7% increase in average price.

The gross value of pig slaughterings and other disposals fell by 6% to \$911 million, with a 6% increase in total disposals more than offset by a 12% drop in average price.

Livestock products

For 2002–03, the preliminary estimate of the gross value of livestock products fell by 5% to \$6.4 billion, with an increase in the gross value of wool more than offset by decreases in the gross values of milk and eggs.

The gross value of wool increased by 22% to \$3.3 billion. This was due to a 30% increase in average price as buyers reacted to dwindling supplies, with wool production down by 6% and the national sheep flock at its lowest level since 1947.

The gross value of milk fell by 25% to \$2.8 billion, a result of an 8% drop in production due to drought and an 18% fall in average price. For eggs, the gross value of production fell by 11% to \$286 million, with a 2% increase in production more than offset by a 12% fall in average price.

1

GROSS VALUE, Agricultural Commodities—Year ended 30 June 2003p

	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Aust.
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
Crops									
Cereals for grain									
Barley	103.6	128.4	^ 44.2	315.0	293.3	5.3	(a)	—	889.7
Grain sorghum	^ 114.8	*0.7	199.9	(a)	**	(a)	0.2	—	315.9
Oats	23.1	66.5	*1.2	13.2	105.3	1.8	(a)	—	211.1
Rice	^ 158.5	**	(a)	(a)	—	(a)	—	—	^ 159.9
Wheat	669.7	247.3	168.5	521.5	1 020.6	7.3	(a)	—	2 634.9
Other(b)	118.7	67.3	52.8	49.8	^ 21.9	2.2	0.2	—	312.8
Apples	55.8	148.9	22.1	50.4	37.2	43.8	(a)	0.1	358.3
Grapes	268.7	366.7	19.6	688.0	101.8	4.5	11.5	0.1	1 461.0
Other fruit and nuts(b)	328.9	372.5	733.4	222.7	82.3	11.3	30.6	—	1 781.6
Cotton(c)	616.8	(a)	^ 136.3	(a)	—	(a)	(a)	(a)	753.1
Crops cut for hay	103.4	^ 54.3	^ 58.4	49.4	99.3	*3.5	2.9	—	371.2
Legumes for grain									
Lupins	^ 13.5	^ 5.9	—	^ 30.0	158.6	^ 0.4	(a)	—	208.4
Field peas	^ 2.3	^ 5.9	^ —	42.8	^ 7.2	^ 0.3	(a)	—	58.6
Other(b)	96.3	127.2	59.0	65.9	^ 5.9	**	—	—	354.4
Oilseeds									
Canola	71.9	74.5	^ —	93.0	126.1	0.3	(a)	—	365.7
Other(b)	^ 28.4	*0.6	^ 20.7	^ 0.5	(a)	(a)	—	—	50.3
Pastures and grasses	155.1	406.9	90.9	109.2	*157.5	56.1	47.9	0.2	1 023.7
Potatoes	^ 72.8	96.9	*85.9	111.4	32.6	79.2	—	—	478.8
Tomatoes	^ 8.8	91.6	^ 160.3	*2.4	^ 13.5	*2.8	—	—	^ 279.4
Other vegetables(b)	217.9	419.8	488.8	157.2	177.2	88.6	4.0	—	1 553.5
Sugar cane cut for crushing	68.1	(a)	926.5	(a)	8.9	(a)	(a)	(a)	1 003.5
All other crops(b)	198.5	313.8	^ 412.1	106.1	122.4	98.3	3.8	2.2	1 257.2
<i>Total crops</i>	<i>3 495.8</i>	<i>2 997.2</i>	<i>3 680.5</i>	<i>2 628.5</i>	<i>2 571.8</i>	<i>405.6</i>	<i>101.0</i>	<i>2.6</i>	<i>15 883.1</i>
Livestock slaughtering and other disposals									
Cattle and calves	1 431.5	1 031.4	2 873.1	217.9	468.8	136.6	250.6	2.6	6 412.6
Sheep and lambs(d)	551.3	611.4	54.1	333.7	443.9	42.1	—	1.5	2 037.9
Pigs	275.8	164.6	213.4	n.p.	n.p.	n.p.	n.p.	(a)	911.3
Poultry	456.4	362.7	202.9	n.p.	n.p.	n.p.	n.p.	0.2	1 273.3
<i>Total livestock slaughtering and other disposals(e)</i>	<i>2 721.6</i>	<i>2 178.6</i>	<i>3 353.0</i>	<i>823.9</i>	<i>1 133.2</i>	<i>203.1</i>	<i>253.7</i>	<i>4.2</i>	<i>10 671.3</i>
Livestock products									
Wool(f)	1 296.0	674.3	138.7	403.9	690.5	110.5	(a)	2.1	3 316.0
Milk	426.7	1 630.7	250.5	222.1	113.9	151.3	n.p.	n.p.	2 797.1
Eggs	^ 93.8	^ 70.5	^ 54.7	^ 18.3	29.2	10.3	n.p.	n.p.	286.4
<i>Total livestock products</i>	<i>1 816.4</i>	<i>2 375.5</i>	<i>443.9</i>	<i>644.3</i>	<i>833.6</i>	<i>272.1</i>	<i>5.0</i>	<i>8.6</i>	<i>6 399.5</i>
Total agriculture	8 033.8	7 551.4	7 477.4	4 096.7	4 538.6	880.7	359.7	15.5	32 953.9

(a) Data not collected.

(b) Estimates for 2002–03 for these commodities cannot be produced at the preliminary stage due to the unavailability of suitable source data. The 2001–02 values have been used to provide an 'order of magnitude' estimate as a contribution to the 'total agriculture' gross value. Estimates for these commodities for 2002–03 will be provided in the publication *Value of Agricultural Commodities Produced, Australia* (cat. no. 7503.0).

(c) Includes value of cotton lint and cotton seed.

(d) Excludes value of wool on skins.

(e) Includes value of other livestock.

(f) Includes value of dead wool and wool on skins.

	2001	2002	2003p	Change 2003p on 2002
	\$m	\$m	\$m	%
Crops				
Cereals for grain				
Barley	1 343.5	1 724.8	889.7	-48.4
Grain sorghum	278.7	349.4	315.9	-9.6
Oats	138.4	251.3	211.1	-16.0
Rice	350.3	326.8	^159.9	-51.1
Wheat	5 130.4	6 356.3	2 634.9	-58.5
Other(a)	252.2	312.8	312.8	—
Apples	282.0	348.0	358.3	3.0
Grapes	1 517.5	1 577.7	1 461.0	-7.4
Other fruit and nuts(a)	1 759.5	1 781.6	1 781.6	—
Cotton(b)	1 304.6	1 326.8	753.1	-43.2
Crops cut for hay	201.2	223.3	371.2	66.2
Legumes for grain				
Field peas	99.7	147.3	58.6	-60.2
Lupins	216.6	303.8	208.4	-31.4
Other(a)	266.5	354.4	354.4	—
Oilseeds				
Canola	545.1	675.0	365.7	-45.8
Other(a)	49.6	50.3	50.3	—
Pastures and grasses				
Potatoes	458.3	485.4	478.8	-1.4
Tomatoes	256.7	^229.7	^279.4	21.6
Other vegetables(a)	1 467.6	1 553.5	1 553.5	—
Sugar cane cut for crushing	656.7	989.1	1 003.5	1.5
All other crops(a)	1 183.8	1 257.2	1 257.2	—
<i>Total crops</i>	18 534.2	21 402.7	15 883.1	-25.8
Livestock slaughterings and other disposals				
Cattle and calves	6 430.6	7 142.4	6 412.6	-10.2
Sheep and lambs(c)	1 401.8	2 117.6	2 037.9	-3.8
Pigs	822.3	967.7	911.3	-5.8
Poultry	1 060.2	1 174.9	1 273.3	8.4
<i>Total livestock slaughterings and other disposals(d)</i>	9 737.8	11 434.5	10 671.3	-6.7
Livestock products				
Wool(e)	2 541.2	2 713.2	3 316.0	22.2
Milk	3 053.3	3 717.1	2 797.1	-24.8
Eggs	332.7	320.4	286.4	-10.6
<i>Total livestock products(f)</i>	5 964.7	6 750.7	6 399.5	-5.2
Total agriculture(f)	34 236.7	39 587.9	32 953.9	-16.8

(a) Estimates for 2002–03 for these commodities cannot be produced at the preliminary estimates stage due to the unavailability of suitable source data. The 2001–02 values have been used to provide an 'order of magnitude' estimate as a contribution to the 'total agriculture' gross value. Estimates for these commodities for 2002–03 will be provided in the publication *Value of Agricultural Commodities Produced, Australia* (cat. no. 7503.0).

(b) Includes value of cotton lint and cotton seed.

(c) Excludes value of wool on skins.

(d) Includes value of other livestock.

(e) Includes value of dead wool and wool on skins.

(f) Total for 2001 includes gross value of honey and beeswax; totals for 2002 and 2003 exclude these commodities.

EXPLANATORY NOTES

INTRODUCTION

- 1** The value estimates in this publication are derived by the multiplication of price and quantity of agricultural commodities.
- 2** Price data refers to the average unit value of a given commodity realised in the marketplace. Price information for livestock slaughterings and wool is obtained from Australian Bureau of Statistics (ABS) collections. Price information for other commodities is obtained from non-ABS sources, including marketing authorities and industry sources.
- 3** Quantity data for crops and eggs have been collected via early estimates from the 2002–03 Agricultural Survey (AS). In 2001–02 this information was also collected via the AS, while in 2000–01 this information was collected via the Agricultural Census. Remaining commodity data is obtained from other ABS collections, with some information from non-ABS sources.

GENERAL

- 4** Where figures for individual states or territories have been suppressed for reasons of confidentiality, they have been included in relevant totals.
- 5** The estimates for earlier years shown in this publication have been revised where necessary.
- 6** Where figures have been rounded, discrepancies may occur between sums of the component items and totals.
- 7** The method of collection of relevant prices for, and the costs of marketing agricultural commodities varies considerably between states and between commodities. Where a statutory authority handles marketing of the whole or a portion of a product, data are usually obtained from this source. Information is also obtained from marketing reports, wholesalers, brokers and auctioneers. For all commodities, values are in respect of production during the year (or season) irrespective of when payments are made. For that portion of production not marketed (e.g. hay grown on farm for own use, milk used in farm household, etc.), estimates are made from the best available information and, in general, are calculated on a local value basis.

PERIOD COVERED

- 8** The production statistics used in deriving the preliminary value estimates for 2002–03 and the final estimates for 2001–02 and 2000–01 relate to the years ended 30 June.

DEFINITIONS OF TERMS USED

- 9** The following are brief definitions of the terms used:
 - *Gross value of commodities produced* is the value placed on recorded production at the wholesale prices realised in the marketplace.
 - *Marketplace*, in general, is the metropolitan market in each state. In cases where commodities are consumed locally, or where they become raw material for a secondary industry, these points are presumed to be the marketplace.
 - *Livestock slaughterings and other disposals* values are published as one figure but include two distinct components:
 - ♦ value of livestock slaughtered; and
 - ♦ value of net exports, i.e. the total value of livestock intended for slaughter in adjacent state(s) where available (at present these can only be identified between the Northern Territory and adjacent states) and livestock exported overseas whether for slaughter or breeding, minus the value of imports of livestock.

EXPLANATORY NOTES *continued*

SAMPLE ERROR

10 The estimates of gross value for crops and eggs are based on production information provided by the initial respondents to the AS, which is a sample survey drawn from the total farm population in scope of the collection. These estimates are therefore subject to sampling variability; that is, they may differ from the figures that would have been produced if all farms or farm businesses had been included in the AS. One measure of the likely difference is given by the standard error (SE) which indicates the extent to which an estimate might have varied by chance because only a sample was taken. There are about two chances in three that a sample estimate will differ by less than one SE from the figure that would have been obtained if all establishments had been reported for, and about nineteen chances in twenty that the difference will be less than two SEs.

11 The estimates of gross value of livestock slaughterings and other disposals, wool and milk are based on data obtained from censuses and are therefore not subject to sampling variability.

12 In this publication, sampling variability of the estimates is measured by the relative standard error (RSE) which is obtained by expressing the SE as a percentage of the estimate to which it refers. Most published estimates have RSEs less than 5%. For some states with limited production of certain commodities, RSEs are greater than 10%. Estimates that have an estimated relative standard error between 10% and 25% are annotated with the symbol '^'. These estimates should be used with caution as they are subject to sampling variability too high for some purposes. Estimates with an RSE between 25% and 50% are annotated with the symbol '*', indicating that the estimate should be used with caution as it is subject to sampling variability too high for most practical purposes. Estimates with an RSE greater than 50% are annotated with the symbol '**' indicating that the sampling variability causes the estimates to be considered too unreliable for general use. Separate indication of the RSEs of all estimates is available on request.

13 A table with RSEs for selected estimates of gross value follows:

RELATIVE STANDARD ERRORS OF SELECTED GROSS VALUES—At 30 June 2003

	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Aust.
	%	%	%	%	%	%	%	%	%
Value of barley for grain	6.6	4.9	10.8	3.4	3.8	5.7	..	—	2.1
Value of grain sorghum	11.8	48.6	5.9	..	55.6	..	—	—	5.7
Value of wheat for grain	3.9	4.8	5.8	3.0	2.6	7.1	..	—	1.6
Value of lupins for grain	10.1	14.6	—	10.9	6.2	12.7	..	—	5.2
Value of canola	5.6	6.6	20.1	7.3	8.0	4.3	..	—	3.7
Value of sugar cane	8.0	..	3.7	..	8.4	..	..	..	4.0
Value of apples	..	..	..	..	..	..	..	..	..
Value of grapes	..	..	..	..	..	..	..	..	..
Value of potatoes	12.9	5.5	25.2	6.4	5.6	3.6	—	—	5.3
<i>Value of total crops</i>	2.0	1.4	2.2	1.0	2.4	1.5	—	—	0.8
Value of livestock slaughterings	..	..	..	..	..	..	..	..	..
Value of livestock products	0.6	0.3	1.6	0.6	0.2	0.3	—	—	0.2
Value of total agriculture	0.9	0.6	1.1	0.6	1.4	0.7	—	—	0.4

EXPLANATORY NOTES *continued*

ABS DATA AVAILABLE ON REQUEST

14 As well as the statistics included in this and related publications, the ABS may have other relevant data available on request. Inquiries should be made to either Geoff Ellerton on Hobart (03) 6222 5856 or the National Information and Referral Service on 1300 135 070.

GENERAL ACKNOWLEDGMENT

15 ABS publications draw extensively on information provided freely by individuals, businesses, governments and other organisations. Their continued cooperation is very much appreciated: without it, the wide range of statistics published by the ABS would not be available. Information received by the ABS is treated in strict confidence as required by the *Census and Statistics Act 1905*.

RELATED PUBLICATIONS

16 A range of agricultural publications is produced by the ABS, including:

Agricultural Commodities, Australia, cat. no. 7121.0

Livestock and Meat, Australia — Electronic Publication, cat. no. 7218.0.55.001

Livestock Products, Australia, cat. no. 7215.0

Principal Agricultural Commodities, Australia, Preliminary, cat. no. 7111.0

Value of Agricultural Commodities Produced, Australia, cat. no. 7503.0

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